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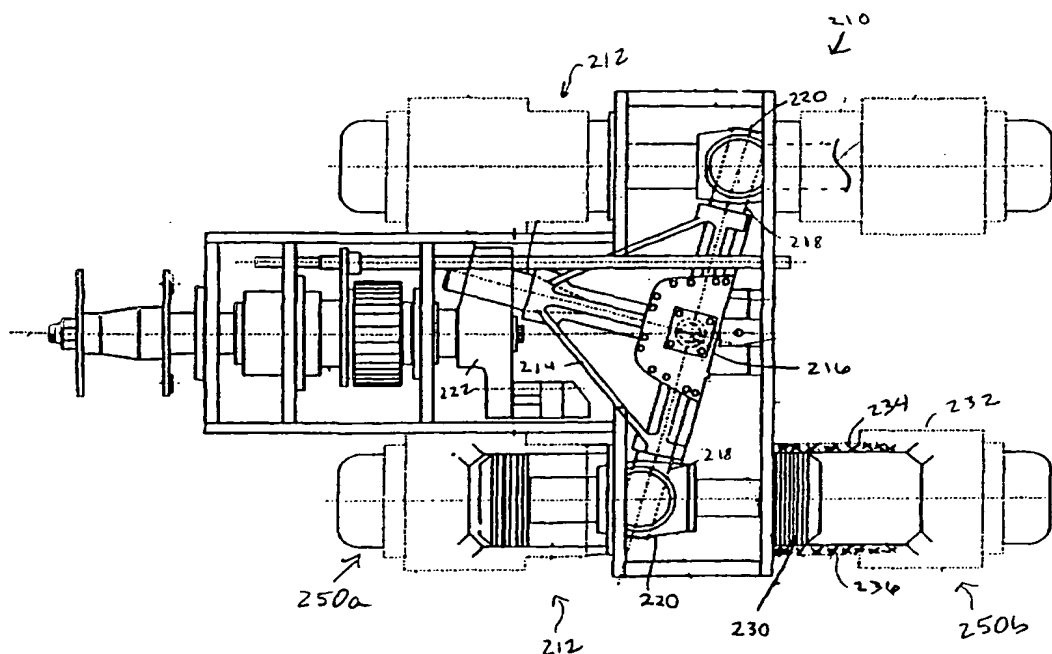
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(54) Title: **VARIABLE STROKE/CLEARANCE MECHANISM**



(57) **Abstract:** An assembly includes a cylinder (232) and a piston assembly (212) housed within the cylinder and configured for reciprocal motion relative to the cylinder. The piston assembly and cylinder include a magnet (230) and coil (234) configured to undergo relative motion of the piston assembly and cylinder. The assembly includes a transition arm (214) and a rotating member (222) coupled to the piston assembly by the transition arm. The reciprocal motion is linear in space and sinusoidal in time.

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